

Cumulative Review 2 (KEY)

1. $8x^3 + 12x^2y + 6xy^2 + y^3$

2. $4x^2 + 9$

3. $(2x-1)(4x^2+2x+1)$

4. $(x+9)(x-6)$

5. $(4x-1)(3x+2)$

6. $(3x+y)(z-5)$

7. $\lim_{x \rightarrow \infty} f(x) = -\infty, \quad \lim_{x \rightarrow -\infty} f(x) = \infty$

8. $-3x^3 - 21x^2 - 38x - 53 + \frac{-69x + 48}{x^2 - 2x + 1}$